

# Executive Summary Report

## SMOG CHECK Statewide

January 2007

### 1. Testing Volume

|              | Total   | Failed  | Percent (%) Fail |
|--------------|---------|---------|------------------|
| Initial Test | 834,027 | 104,964 | 12.59%           |
| Total        | 967,218 | 134,871 | 13.94%           |

### 2. Certification Volume

|              | Cert. Issued | Percent (%) Cert. Issued | No Cert. | Percent (%) No Cert. |
|--------------|--------------|--------------------------|----------|----------------------|
| Initial Test | 710,922      | 85.24%                   | 123,105  | 14.76%               |
| Total        | 807,278      | 83.46%                   | 159,940  | 16.54%               |

### 2a. Certification Volume (Test Only)

|              | Cert. Issued | Percent (%) Cert. Issued | No Cert. | Percent (%) No Cert. |
|--------------|--------------|--------------------------|----------|----------------------|
| Initial Test | 417,499      | 85.34%                   | 71,742   | 14.66%               |
| Total        | 477,637      | 84.33%                   | 88,741   | 15.67%               |

### 3. Initial Test Failures by Failure Type

|                 | Failed  | Percent (%) Fail |
|-----------------|---------|------------------|
| Gross Polluters | 18,751  | 2.25%            |
| All Emissions   | 60,326  | 7.23%            |
| All Visual      | 11,541  | 1.38%            |
| All Functional  | 32,185  | 3.86%            |
| OBDII           | 31,101  | 3.73%            |
| Overall         | 104,964 | 12.59%           |

### 4. Initial Test Failures by Program Area

| Program Areas       | Initial Tests | Failed  | Percent (%) Failed | G.P.   | Percent (%) G.P. |
|---------------------|---------------|---------|--------------------|--------|------------------|
| Enhanced            | 662,720       | 85,089  | 12.84%             | 14,870 | 2.24%            |
| Partially Enhanced  | 39,220        | 5,552   | 14.16%             | 1,034  | 2.64%            |
| Basic               | 75,809        | 8,572   | 11.31%             | 1,795  | 2.37%            |
| Change of Ownership | 6,151         | 850     | 13.82%             | 259    | 4.21%            |
| No Program          | 9             | 4       | 44.44%             | 1      | 11.11%           |
| Unknown Program     | 50,118        | 4,897   | 9.77%              | 792    | 1.58%            |
| Total Program Area  | 834,027       | 104,964 | 12.59%             | 18,751 | 2.25%            |

### 5. Initial Test Failures by Station Type

| Station Types                | All Tests Performed | Failed  | Percent (%) Failed | G.P.   | Percent (%) G.P. |
|------------------------------|---------------------|---------|--------------------|--------|------------------|
| Test Only                    | 489,241             | 69,933  | 14.29%             | 13,377 | 2.73%            |
| Regular                      | 291,626             | 28,235  | 9.68%              | 4,135  | 1.42%            |
| Basic Area Dealer            | 5,807               | 308     | 5.30%              | 50     | 0.86%            |
| Gold Shield in Enhanced Area | 30,102              | 3,891   | 12.93%             | 642    | 2.13%            |
| Gold Shield in Basic Area    | 7,407               | 1,083   | 14.62%             | 263    | 3.55%            |
| Gold Shield in COO Area      | 4,180               | 553     | 13.23%             | 157    | 3.76%            |
| Business Fleet               | 32                  | 2       | 6.25%              | 0      | 0.00%            |
| Permanent Fleet Registered   | 175                 | 18      | 10.29%             | 1      | 0.57%            |
| Referee                      | 903                 | 502     | 55.59%             | 87     | 9.63%            |
| Government Fleet             | 4,551               | 439     | 9.65%              | 39     | 0.86%            |
| Unknown Privilege            | 3                   | 0       | 0.00%              | 0      | 0.00%            |
| Total                        | 834,027             | 104,964 | 12.59%             | 18,751 | 2.25%            |

### 5.a. Initial Tests at Test-Only Stations

|                   | Initial Tests | Cert. Issued |
|-------------------|---------------|--------------|
| Volunteers        | 226,644       | 200,837      |
| Directed Vehicles | 262,597       | 216,662      |
| Total             | 489,241       | 417,499      |

### 5.b. Initial Tests at Gold Shield Stations

|                   | Initial Tests | Cert. Issued |
|-------------------|---------------|--------------|
| Volunteers        | 41,299        | 35,281       |
| Directed Vehicles | 390           | 63           |
| Total             | 41,689        | 35,344       |

## 6. Initial Tests by Vehicle Model Year

| Model Year       | Initial Test | Failed Overall | Percent (%)<br>Fail Overall | Percent (%)<br>Fail Emiss. | Percent (%)<br>Fail G.P. | Percent (%)<br>Fail Funct. | Percent (%)<br>Fail Visual | Percent (%)<br>Fail OBDII |
|------------------|--------------|----------------|-----------------------------|----------------------------|--------------------------|----------------------------|----------------------------|---------------------------|
| 1952             | 1            | 1              | 100.00%                     | 100.00%                    | 100.00%                  | 0.00%                      | 0.00%                      | 0.00%                     |
| 1960             | 2            | 2              | 100.00%                     | 100.00%                    | 0.00%                    | 0.00%                      | 0.00%                      | 0.00%                     |
| 1966             | 2            | 2              | 100.00%                     | 50.00%                     | 0.00%                    | 50.00%                     | 50.00%                     | 0.00%                     |
| 1970             | 1            | 1              | 100.00%                     | 0.00%                      | 0.00%                    | 0.00%                      | 100.00%                    | 0.00%                     |
| 1974             | 7            | 2              | 28.57%                      | 28.57%                     | 14.29%                   | 14.29%                     | 0.00%                      | 0.00%                     |
| 1975             | 26           | 10             | 38.46%                      | 30.77%                     | 23.08%                   | 26.92%                     | 15.38%                     | 0.00%                     |
| 1976             | 1,613        | 499            | 30.94%                      | 23.62%                     | 10.91%                   | 17.73%                     | 9.42%                      | 0.00%                     |
| 1977             | 2,211        | 506            | 22.89%                      | 16.42%                     | 7.24%                    | 12.71%                     | 7.42%                      | 0.00%                     |
| 1978             | 2,573        | 677            | 26.31%                      | 20.25%                     | 9.87%                    | 13.21%                     | 7.27%                      | 0.00%                     |
| 1979             | 3,093        | 840            | 27.16%                      | 20.69%                     | 10.25%                   | 14.58%                     | 7.44%                      | 0.00%                     |
| 1980             | 1,977        | 532            | 26.91%                      | 21.04%                     | 11.18%                   | 14.97%                     | 8.35%                      | 0.00%                     |
| 1981             | 2,215        | 696            | 31.42%                      | 26.37%                     | 13.05%                   | 15.89%                     | 7.90%                      | 0.00%                     |
| 1982             | 2,556        | 761            | 29.77%                      | 24.65%                     | 11.42%                   | 15.02%                     | 6.81%                      | 0.00%                     |
| 1983             | 3,429        | 986            | 28.75%                      | 23.59%                     | 10.97%                   | 15.11%                     | 7.41%                      | 0.00%                     |
| 1984             | 6,621        | 1,996          | 30.15%                      | 25.37%                     | 12.51%                   | 15.12%                     | 7.11%                      | 0.00%                     |
| 1985             | 9,317        | 2,687          | 28.84%                      | 23.57%                     | 11.02%                   | 15.06%                     | 6.19%                      | 0.00%                     |
| 1986             | 12,432       | 3,261          | 26.23%                      | 20.97%                     | 9.65%                    | 13.59%                     | 4.94%                      | 0.00%                     |
| 1987             | 15,320       | 4,271          | 27.88%                      | 23.14%                     | 9.09%                    | 13.35%                     | 4.63%                      | 0.00%                     |
| 1988             | 18,595       | 4,405          | 23.69%                      | 18.87%                     | 7.27%                    | 11.58%                     | 3.72%                      | 0.00%                     |
| 1989             | 24,650       | 5,302          | 21.51%                      | 16.61%                     | 6.09%                    | 10.61%                     | 3.37%                      | 0.00%                     |
| 1990             | 28,909       | 5,576          | 19.29%                      | 15.33%                     | 5.15%                    | 8.85%                      | 2.26%                      | 0.00%                     |
| 1991             | 32,111       | 5,828          | 18.15%                      | 14.24%                     | 4.59%                    | 8.54%                      | 1.94%                      | 0.00%                     |
| 1992             | 31,589       | 5,067          | 16.04%                      | 12.65%                     | 4.18%                    | 6.92%                      | 1.66%                      | 0.00%                     |
| 1993             | 37,146       | 6,638          | 17.87%                      | 14.57%                     | 3.27%                    | 6.63%                      | 1.71%                      | 0.00%                     |
| 1994             | 43,587       | 6,137          | 14.08%                      | 10.75%                     | 2.32%                    | 5.55%                      | 1.50%                      | 0.00%                     |
| 1995             | 57,757       | 6,681          | 11.57%                      | 8.61%                      | 1.80%                    | 4.39%                      | 1.23%                      | 0.00%                     |
| 1996             | 42,879       | 7,583          | 17.68%                      | 6.82%                      | 1.02%                    | 1.59%                      | 0.99%                      | 12.15%                    |
| 1997             | 67,231       | 8,323          | 12.38%                      | 4.28%                      | 0.77%                    | 1.10%                      | 0.74%                      | 8.57%                     |
| 1998             | 54,957       | 6,074          | 11.05%                      | 3.07%                      | 0.52%                    | 0.82%                      | 0.67%                      | 8.16%                     |
| 1999             | 87,076       | 5,964          | 6.85%                       | 1.48%                      | 0.26%                    | 0.54%                      | 0.39%                      | 5.14%                     |
| 2000             | 59,525       | 5,103          | 8.57%                       | 1.26%                      | 0.31%                    | 0.71%                      | 0.46%                      | 6.99%                     |
| 2001             | 113,275      | 5,790          | 5.11%                       | 0.43%                      | 0.09%                    | 0.47%                      | 0.22%                      | 4.31%                     |
| 2002             | 20,790       | 931            | 4.48%                       | 0.38%                      | 0.10%                    | 0.35%                      | 0.25%                      | 3.47%                     |
| 2003             | 26,973       | 1,000          | 3.71%                       | 0.24%                      | 0.04%                    | 0.18%                      | 0.14%                      | 2.94%                     |
| 2004             | 7,871        | 267            | 3.39%                       | 0.17%                      | 0.01%                    | 0.22%                      | 0.11%                      | 2.67%                     |
| 2005             | 6,569        | 233            | 3.55%                       | 0.21%                      | 0.02%                    | 0.11%                      | 0.35%                      | 2.66%                     |
| 2006             | 7,338        | 233            | 3.18%                       | 0.40%                      | 0.10%                    | 0.12%                      | 0.34%                      | 2.47%                     |
| 2007             | 1,803        | 99             | 5.49%                       | 2.33%                      | 0.89%                    | 0.11%                      | 2.55%                      | 2.50%                     |
| Total Model Year | 834,027      | 104,964        | 12.59%                      | 7.23%                      | 2.25%                    | 3.86%                      | 1.38%                      | 3.73%                     |

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## 7. Referee Activity

|                               | Certificates Issued |
|-------------------------------|---------------------|
| Certificate of Compliance     | 713                 |
| Certificate of Non Compliance | 0                   |
| Parts Cost                    | 84                  |
| Hardship Extensions           | 112                 |
| Exempt Vehicle                | 106                 |
| Exempted by Directive         | 157                 |
| Parts Exemption               | 1                   |
| Unknown Outcome               | 0                   |
|                               | <b>1,173</b>        |

## 8. Active Stations

|   | Station Count |
|---|---------------|
| Licensed Stations that did not Conduct a Test | 1,373         |
| Stations Locked-Out at Least Once             | 116           |
| Stations Conducted at Least One Test          | 7,736         |

## 9. Active Technicians

|    |                  | Technician Count | Daily Average |
|----|------------------|------------------|---------------|
| EA | Both Endorsement | 10,587           | 6,165         |
| EA | Gas Endorsement  | 17               | 0             |
| EB | Both Endorsement | 58               | 0             |
| EB | Gas Endorsement  | 566              | 0             |
| GU | Both Endorsement | 20               | 0             |

## 10. Inspections Costs

|                              | ASM Initial Test Count | Avg ASM Inspection Cost | TSI Initial Test Count | Avg TSI Inspection Cost | Total Initial Tests | Overall Average Inspection Cost |
|------------------------------|------------------------|-------------------------|------------------------|-------------------------|---------------------|---------------------------------|
| Test Only                    | 435,400                | 48.45                   | 42,566                 | 48.35                   | 477,966             | 48.44                           |
| Test and Repair              | 200,432                | 46.86                   | 86,143                 | 44.43                   | 286,575             | 46.13                           |
| Test and Repair Dealer       | 14                     | 60.29                   | 5,777                  | 47.60                   | 5,791               | 47.63                           |
| Referee                      | 530                    | 30.00                   | 209                    | 30.00                   | 739                 | 30.00                           |
| Gold Shield in Enhanced Area | 22,362                 | 45.96                   | 7,561                  | 43.71                   | 29,923              | 45.39                           |
| Gold Shield in Basic Area    | 12                     | 63.67                   | 7,395                  | 35.70                   | 7,407               | 35.75                           |
| Gold Shield in COO Area      | 593                    | 60.34                   | 4,189                  | 48.33                   | 4,782               | 49.82                           |

## 11. Repair Costs

|                 | All Cost Ranges | Repair Count | Average Cost | (All Cost Ranges) Repair Count | (All Cost Ranges) Average Cost |
|-----------------|-----------------|--------------|--------------|--------------------------------|--------------------------------|
| Regular Repairs | \$0-50          | 7,496        | 22.30        | <b>24,653</b>                  | <b>203.57</b>                  |
|                 | \$51-150        | 6,380        | 99.97        |                                |                                |
|                 | \$151-250       | 4,042        | 199.32       |                                |                                |
|                 | \$251-450       | 4,128        | 335.43       |                                |                                |
|                 | Over \$450      | 2,607        | 776.11       |                                |                                |
| Cap Repairs     | \$0-50          | 153          | 23.89        | <b>3,202</b>                   | <b>331.90</b>                  |
|                 | \$51-150        | 377          | 108.54       |                                |                                |
|                 | \$151-250       | 575          | 204.91       |                                |                                |
|                 | \$251-450       | 1,193        | 346.28       |                                |                                |
|                 | Over \$450      | 904          | 538.96       |                                |                                |
| Total Repairs   | \$0-50          | 6,815        | 22.51        | <b>25,582</b>                  | <b>237.72</b>                  |
|                 | \$51-150        | 5,574        | 100.17       |                                |                                |
|                 | \$151-250       | 4,276        | 199.98       |                                |                                |
|                 | \$251-450       | 5,183        | 338.83       |                                |                                |
|                 | Over \$450      | 3,734        | 738.71       |                                |                                |

## 12. CAP Repair Costs

|             | Total Vehicles | Average Repair Cost |
|-------------|----------------|---------------------|
| Cap Repairs | 3,202          | 331.90              |

## 13. Drill-Through

|                                    | Program Areas | Station Types                | Certificates Issued | Total Failed | Gross Polluters | Tampered | All OBD-II Tests | All Emission Tests | All Functional Tests | All Visual Tests |
|------------------------------------|---------------|------------------------------|---------------------|--------------|-----------------|----------|------------------|--------------------|----------------------|------------------|
| Acceleration Simulation Mode (ASM) | Basic         | Gold Shield in Enhanced Area | 5                   | 1            | 0               | 0        | 0                | 1                  | 0                    | 1                |

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|                                    | Program Areas       | Station Types                | Certificates Issued | Total Failed | Gross Polluters | Tampered | All OBD-II Tests | All Emission Tests | All Functional Tests | All Visual Tests |
|------------------------------------|---------------------|------------------------------|---------------------|--------------|-----------------|----------|------------------|--------------------|----------------------|------------------|
| Acceleration Simulation Mode (ASM) | Basic               | Test and Repair              | 46                  | 6            | 2               | 0        | 1                | 4                  | 2                    | 0                |
| Acceleration Simulation Mode (ASM) | Basic               | Test Only                    | 27                  | 7            | 0               | 2        | 3                | 4                  | 3                    | 3                |
| Acceleration Simulation Mode (ASM) | Change of Ownership | Test and Repair              | 8                   | 1            | 0               | 0        | 0                | 1                  | 0                    | 0                |
| Acceleration Simulation Mode (ASM) | Change of Ownership | Test Only                    | 4                   | 1            | 0               | 0        | 0                | 1                  | 0                    | 0                |
| Acceleration Simulation Mode (ASM) | Enhanced            | Business-Fleet               | 12                  | 2            | 0               | 0        | 0                | 2                  | 0                    | 0                |
| Acceleration Simulation Mode (ASM) | Enhanced            | Gold Shield in Basic Area    | 11                  | 1            | 1               | 0        | 0                | 1                  | 1                    | 0                |
| Acceleration Simulation Mode (ASM) | Enhanced            | Gold Shield in COO Area      | 25                  | 6            | 1               | 0        | 2                | 3                  | 3                    | 1                |
| Acceleration Simulation Mode (ASM) | Enhanced            | Gold Shield in Enhanced Area | 15,257              | 2,239        | 288             | 116      | 993              | 1,012              | 586                  | 245              |
| Acceleration Simulation Mode (ASM) | Enhanced            | Government Fleet             | 0                   | 157          | 9               | 2        | 71               | 71                 | 9                    | 1                |
| Acceleration Simulation Mode (ASM) | Enhanced            | Permanent Fleet Registered   | 83                  | 18           | 1               | 0        | 9                | 9                  | 0                    | 0                |
| Acceleration Simulation Mode (ASM) | Enhanced            | Referee                      | 257                 | 279          | 46              | 118      | 50               | 141                | 92                   | 155              |
| Acceleration Simulation Mode (ASM) | Enhanced            | Test and Repair              | 142,009             | 15,350       | 1,791           | 768      | 6,640            | 6,926              | 4,030                | 1,399            |
| Acceleration Simulation Mode (ASM) | Enhanced            | Test Only                    | 355,400             | 62,391       | 11,894          | 3,532    | 15,001           | 40,602             | 20,238               | 6,883            |
| Acceleration Simulation Mode (ASM) | No Program          | Test Only                    | 1                   | 4            | 1               | 0        | 2                | 1                  | 2                    | 0                |
| Acceleration Simulation Mode (ASM) | Partial             | Gold Shield in COO Area      | 22                  | 6            | 1               | 0        | 1                | 3                  | 3                    | 0                |
| Acceleration Simulation Mode (ASM) | Partial             | Gold Shield in Enhanced Area | 2,463               | 532          | 100             | 28       | 149              | 319                | 152                  | 58               |
| Acceleration Simulation Mode (ASM) | Partial             | Referee                      | 11                  | 16           | 2               | 10       | 2                | 8                  | 8                    | 12               |
| Acceleration Simulation Mode (ASM) | Partial             | Test and Repair              | 17,287              | 3,057        | 552             | 156      | 820              | 1,887              | 891                  | 311              |
| Acceleration Simulation Mode (ASM) | Partial             | Test Only                    | 9,624               | 1,659        | 308             | 104      | 404              | 1,083              | 494                  | 175              |
| Acceleration Simulation Mode (ASM) | Unknown Program     | Gold Shield in Enhanced Area | 1,293               | 223          | 43              | 11       | 85               | 122                | 40                   | 26               |

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|                                    | Program Areas       | Station Types                | Certificates Issued | Total Failed | Gross Polluters | Tampered | All OBD-II Tests | All Emission Tests | All Functional Tests | All Visual Tests |
|------------------------------------|---------------------|------------------------------|---------------------|--------------|-----------------|----------|------------------|--------------------|----------------------|------------------|
| Acceleration Simulation Mode (ASM) | Unknown Program     | Government Fleet             | 0                   | 236          | 21              | 1        | 62               | 162                | 24                   | 1                |
| Acceleration Simulation Mode (ASM) | Unknown Program     | Referee                      | 51                  | 32           | 5               | 12       | 12               | 14                 | 11                   | 20               |
| Acceleration Simulation Mode (ASM) | Unknown Program     | Test and Repair              | 15,747              | 1,616        | 214             | 79       | 691              | 753                | 367                  | 147              |
| Acceleration Simulation Mode (ASM) | Unknown Program     | Test Only                    | 12,786              | 1,746        | 329             | 108      | 587              | 1,045              | 442                  | 206              |
| Two Speed Idle (TSI)               | Basic               | Gold Shield in Basic Area    | 5,385               | 981          | 247             | 83       | 220              | 445                | 409                  | 144              |
| Two Speed Idle (TSI)               | Basic               | Gold Shield in COO Area      | 230                 | 41           | 10              | 3        | 8                | 18                 | 19                   | 4                |
| Two Speed Idle (TSI)               | Basic               | Gold Shield in Enhanced Area | 3,135               | 519          | 112             | 31       | 150              | 217                | 202                  | 80               |
| Two Speed Idle (TSI)               | Basic               | Government Fleet             | 0                   | 9            | 1               | 0        | 3                | 4                  | 0                    | 0                |
| Two Speed Idle (TSI)               | Basic               | Referee                      | 39                  | 36           | 8               | 13       | 7                | 15                 | 14                   | 25               |
| Two Speed Idle (TSI)               | Basic               | Test and Repair              | 44,254              | 5,637        | 1,133           | 357      | 1,680            | 2,335              | 2,121                | 705              |
| Two Speed Idle (TSI)               | Basic               | Test and Repair Dealer       | 4,177               | 274          | 46              | 11       | 94               | 95                 | 89                   | 28               |
| Two Speed Idle (TSI)               | Basic               | Test Only                    | 7,368               | 1,057        | 236             | 68       | 311              | 486                | 312                  | 130              |
| Two Speed Idle (TSI)               | Change of Ownership | Gold Shield in Basic Area    | 59                  | 5            | 0               | 2        | 1                | 1                  | 3                    | 2                |
| Two Speed Idle (TSI)               | Change of Ownership | Gold Shield in COO Area      | 1,858               | 354          | 114             | 25       | 77               | 208                | 130                  | 59               |
| Two Speed Idle (TSI)               | Change of Ownership | Gold Shield in Enhanced Area | 108                 | 32           | 8               | 3        | 5                | 14                 | 17                   | 8                |
| Two Speed Idle (TSI)               | Change of Ownership | Test and Repair              | 2,101               | 311          | 87              | 23       | 67               | 162                | 125                  | 46               |
| Two Speed Idle (TSI)               | Change of Ownership | Test and Repair Dealer       | 50                  | 2            | 1               | 0        | 1                | 1                  | 0                    | 0                |
| Two Speed Idle (TSI)               | Change of Ownership | Test Only                    | 920                 | 141          | 49              | 11       | 30               | 77                 | 59                   | 22               |
| Two Speed Idle (TSI)               | Enhanced            | Gold Shield in Basic Area    | 343                 | 37           | 4               | 1        | 25               | 8                  | 4                    | 2                |
| Two Speed Idle (TSI)               | Enhanced            | Gold Shield in COO Area      | 372                 | 34           | 8               | 1        | 16               | 13                 | 3                    | 2                |
| Two Speed Idle (TSI)               | Enhanced            | Gold Shield in Enhanced Area | 2,661               | 257          | 63              | 13       | 108              | 109                | 67                   | 21               |
| Two Speed Idle (TSI)               | Enhanced            | Government Fleet             | 0                   | 25           | 4               | 0        | 10               | 9                  | 2                    | 0                |
| Two Speed Idle (TSI)               | Enhanced            | Referee                      | 59                  | 37           | 9               | 13       | 7                | 17                 | 7                    | 27               |
| Two Speed Idle (TSI)               | Enhanced            | Test and Repair              | 22,673              | 1,579        | 238             | 79       | 809              | 449                | 351                  | 153              |
| Two Speed Idle (TSI)               | Enhanced            | Test and Repair Dealer       | 524                 | 14           | 1               | 0        | 9                | 1                  | 1                    | 0                |
| Two Speed Idle (TSI)               | Enhanced            | Test Only                    | 27,732              | 2,653        | 512             | 103      | 1,305            | 949                | 520                  | 213              |
| Two Speed Idle (TSI)               | Partial             | Gold Shield in Basic Area    | 33                  | 5            | 1               | 1        | 1                | 2                  | 2                    | 1                |

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|                      | Program Areas   | Station Types                | Certificates Issued | Total Failed | Gross Polluters | Tampered | All OBD-II Tests | All Emission Tests | All Functional Tests | All Visual Tests |
|----------------------|-----------------|------------------------------|---------------------|--------------|-----------------|----------|------------------|--------------------|----------------------|------------------|
| Two Speed Idle (TSI) | Partial         | Gold Shield in COO Area      | 45                  | 10           | 3               | 1        | 2                | 5                  | 3                    | 1                |
| Two Speed Idle (TSI) | Partial         | Gold Shield in Enhanced Area | 227                 | 30           | 12              | 1        | 6                | 19                 | 7                    | 4                |
| Two Speed Idle (TSI) | Partial         | Test and Repair              | 1,790               | 156          | 36              | 13       | 58               | 68                 | 42                   | 23               |
| Two Speed Idle (TSI) | Partial         | Test Only                    | 716                 | 79           | 19              | 5        | 29               | 33                 | 25                   | 11               |
| Two Speed Idle (TSI) | Unknown Program | Gold Shield in Basic Area    | 334                 | 54           | 10              | 1        | 21               | 17                 | 22                   | 5                |
| Two Speed Idle (TSI) | Unknown Program | Gold Shield in COO Area      | 965                 | 102          | 20              | 12       | 33               | 44                 | 35                   | 21               |
| Two Speed Idle (TSI) | Unknown Program | Gold Shield in Enhanced Area | 512                 | 58           | 16              | 3        | 25               | 26                 | 15                   | 7                |
| Two Speed Idle (TSI) | Unknown Program | Government Fleet             | 0                   | 11           | 4               | 1        | 2                | 8                  | 0                    | 1                |
| Two Speed Idle (TSI) | Unknown Program | Referee                      | 66                  | 60           | 17              | 4        | 7                | 39                 | 7                    | 42               |
| Two Speed Idle (TSI) | Unknown Program | Test and Repair              | 6,203               | 522          | 82              | 28       | 257              | 160                | 139                  | 50               |
| Two Speed Idle (TSI) | Unknown Program | Test and Repair Dealer       | 484                 | 18           | 2               | 1        | 12               | 2                  | 3                    | 2                |
| Two Speed Idle (TSI) | Unknown Program | Test Only                    | 2,921               | 195          | 29              | 9        | 119              | 57                 | 29                   | 19               |
| UnKnown TestType     | Basic           | Referee                      | 4                   | 4            | 0               | 0        | 0                | 4                  | 0                    | 4                |
| UnKnown TestType     | Enhanced        | Referee                      | 9                   | 10           | 0               | 1        | 0                | 10                 | 1                    | 9                |
| UnKnown TestType     | Unknown Program | Referee                      | 24                  | 24           | 0               | 0        | 0                | 24                 | 0                    | 24               |

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